

THE DOMINATOR®

PORTABLE PUMP PACKAGE

NBF040

- High Capacity Mobile Pumping System
- Ten Foot Suction Lift (Draft)
- 3000, 5000, 6000 and 10000 GPM Models Available
- Configurations: trailer or skid mounted
- Suitable for use from draft or with portable pressurized water main



Description

The Dominator pumping system is a single, integrated, diesel powered mobile pumping module capable of pumping up to 10,000 gpm at 150 psi at differential with a 10 foot suction lift. The pump and engine are mounted on a box frame base. The portable pump package can be used anywhere large volumes of water are required and a pressurized water source is not available or a water system is not capable of supplying adequate pressure.

Features

- May be used with either fresh or salt water
- High capacity: 3000, 5000, 6000 or 10000 gpm models
- Allows water pump to be moved to location where it is required thus eliminating the need for pressurized water system
- Suitable for use from draft or with portable pressurized water main.

Applications

The portable pump package can be used anywhere large volumes of water are required and a pressurized water source is not available or a water system is not capable of supplying adequate pressure.

Dominator Platform and Transport

Dominator is an open frame, which incorporates structural lifting points and tie-downs to facilitate movement from one location to another via crane, rail, truck, or marine vessel. The Dominator is designed in two standard configurations: trailer and skid mounted. The DOT standard trailer option can be quickly deployed and retrieved by an appropriate towing vehicle. This system contains a running gear consisting of single or dual axle and dual or single wheels, depending on size, with a 24VDC braking system. A dual landing gear jack stand will be included to support the trailer. The hitch will be an adjustable pintle hook. A lockable storage bin for tools and wheel chocks will be located in the tongue of the trailer. The skid mounted option can be hoisted onto a flatbed vehicle for transporting or parked in a desired location.

The Dominator pumping system is capable of delivering up to 10,000 gpm of water at 150 psi through a flexible pipeline. The Boost pump shall be directly driven by diesel engine through a universal driveshaft capable of withstanding transmitted horsepower throughout operating range of the engine. A compressed air pump shall be provided for pump priming with controls located at the pump operator's

panel. The cooling system shall consist of an engine mounted multi-row flat fin and tube radiator with pusher type fan. Electrical system shall be 24 VDC and shall include an alternator and two batteries. An auxiliary pump packing cooling system shall be provided.

The suction manifold shall be constructed from stainless steel pipe and shall be complete with 6-inch (150 mm) National Hose Thread (NH) male brass suction connection adapters with inlet screens and brass 6-inch (150 mm) NH caps. Quantity shall be specific to the unit flow capacity. One ¾-inch (19 mm) valve shall be furnished for draining the manifold. The discharge manifold shall be constructed from stainless steel pipe and shall be complete with one 2½-inch (63 mm) male NH discharge with valve and 5-inch (125 mm) Storz discharges with valves. Quantity shall be specific to the unit flow capacity. One ¾-inch (19 mm) valve shall be furnished for draining the manifold.

The inlet and discharge manifolds shall incorporate 12-inch inlet and 12-inch outlet connections close to the ground to permit relay pumping operations using 12-inch Super Aquaduct flexible pipeline.

Lighting shall consist of two 24 VDC scene lights on each side, as well as the appropriate marker lights in accordance with U.S. DOT Standard 108.

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5000 GPM PORTABLE PUMP PACKAGE

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The trailer assembly shall be prepared, primed and painted with red polyurethane enamel. Two wheel chocks shall be provided. The complete pump/driver will be tested and certified by National Foam, Inc. to meet performance standards.

Technical Data

Boost Pump:

- Contains one or two Peerless, cast iron, horizontal split case pump
- Bronze impeller
- Rated at a nominal capacity up to 5000 gpm @ 150 psi differential while operating at a 10-foot suction lift
- Pump shall have compressed air priming system
- Mechanical packing

Boost Pump Driving Engine:

- Caterpillar diesel engine
- Turbocharged
- Radiator cooled
- Electric Start
- Industrial grade silencer
- Block Heater
- Supplied with air compressor
- Auxiliary packing cooling system

Fuel Tank:

- 8 hour supply at max RPM integral to trailer manufactured to UL requirements

Control Panel:

- Control panel monitors all critical engine parameters and includes a remote engine hand throttle

In addition to controlling engine speed the control panel monitors the following:

- Engine RPM
- Engine hours
- System voltage
- Engine percent load at current RPM
- Engine coolant temperature
- Engine oil pressure
- Fuel economy
- Emergency stop button
- Auxiliary shore power connection plug port

Pumping Unit Enclosure:

- Framing - Mechanical structural steel
- Side panels and rear door - Painted steel doors to allow access to all equipment
- Undercarriage - Structurally enhanced flat track
- Main beams - Steel box channel
- Side rails - Steel
- Cross members - Steel

Weight:

- Approximately 18,000 lb (8,182 kg), may vary depending on size of system

Dimensions: (may vary depending on size and configuration)

- Trailer mounted:
 - 254" L x 96" W x 120" H
- Skid mounted:
 - 190" L x 96" W x 112" H

Connections:

- Suction
 - 6-inch (150 mm) Male National Hose Thread (NH) suction connections with inlet screens
 - 12-inch Victaulic relay pumping connection
- Discharge
 - 5-inch (125 mm) Storz discharges with valves
 - One 2½-inch (63 mm) male NH discharge with valve
 - 12-inch Victaulic relay pumping connection

Options

- Colors other than red
- Custom suction and discharge connections and configurations, including grooved connections for large diameter hose and special hose threads
- Corporate logos installed
- Foam induction system
- Suction Hose Kit: Sixteen 10-foot hose lengths of light-weight, black ridged PVC helix with smooth bore for unrestricted flow, and lightweight male and female couplings. Each hose shall have a lightweight 6 in. basket-type floating strainer
- On-board storage for additional hose and accessories

